CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

75-189

ADMINISTRATIVE DOCUMENTS

APPROVAL SUMMARY

ANDA: 75-189

DRUG PRODUCT: Nabumetone Tablets, 500 mg and 750 mg

FIRM: Teva Pharmaceuticals USA

DOSAGE FORM: Oral Tablet

STRENGTH: 500 mg and 750 mg

cGMP STATEMENT/EIR UPDATE STATUS: EER acceptable on 09/22/98

BIO STUDY: Acceptable (Bio review was dated 08/06/98). The recommended disolution specifications are as follows:

The dissolution testing should be conducted in 900 mL of 2% SLS, at 37° C using USP Apparatus II (paddle) at 50 rpm. The test product should meet the following specifications:

VALIDATION: Both the drug substance and drug product have no USP monographs. Philadelphia District Laboratory has performed the method validation. TEVA has provided satisfactory response to the District's comments on their methods via a telephone amendment (dated 02/22/00) to the ANDA.

STABILITY: Three months room temperature condition data in the market package size, 60s, 100's and 1000's, are provided. (note: 18 month and 20 month CRT dissolution stability data obtained by DOB's recommended specs and method for the 500 mg strength and the 750 mg strength product, respectively, are provided). The container/closure system used for the stability study is equivalent to the system proposed for commercial use (note: Phillips Marlex 5502BN resin will be used in the future for the bottles. Technical data are provided and equivalency of the container/closure system has been established). All reported data are within specifications as listed. A 24 month expiration date is proposed.

Stability tests and specifications are as follows:

Assay: 90.0-110.0% (method SI-11125)

Dissolution: NLT in 45 min. (method SI-11069)
Impurities/degradation products (method SI-11125):

7 55

Any individual

Total: NMT (method SI-11125)

Appearance (method SI-2000):

500 mg strength: White, oval-shaped, film coated tablets. 750 mg strength: Beige, oval-shaped, film coated tablets.

LABELING: Labeling Approval Summary was signed off on 05/05/00.

STERILIZATION VALIDATION: (IF APPLICABLE): N/A

SIZE OF BIO Batch: Teva manufactured two test batches: #K-22174 (750 mg tablets) and #K-22264 (500 mg tablets). Lot #K-22174 was used for in-vivo studies. Both test batches were used for in vitro studies.

The sizes for ANDA test batches and production batches are summarized as follows:

500 mg

(Tablet wt: 660 mg)

750 mg

(Tablet wt: 990 mg)

SIZE OF STABILITY BATCHES: Two test batches: #K-22174 (750 mg tablets) and #K-22264 (500 mg tablets) were placed on stability studies.

PROPOSED PRODUCTION BATCHES: The proposed production batch size are presented above. The manufacturing process for production batches is the same as that for test batches.

Review Chemist: S.H.Lin DATE: 55/09/00
Shing H. Liu, Ph.D.

Team Leader: DSG.'LE DATE: 5-11-00

Devinder Gill, Ph.D.

 $V:\Firmsnz\teva\teva\trs\&rev\75189app.sum$

RECORD OF TELEPHONE CONVERSATION

The firm was contacted regarding comments the Philadelphia District Lab had concerning the methods validation (see attachment for the specific comments)

The firm agreed to address these comments.

Their response will be submitted as a Telephone Amendment to Ruby Yu (301) 594-0180 as well as a fax and hard copy to the document room (Document Room Fax number (301) 827-4337).

DATE

February 10, 2000

ANDA NUMBER

75-189

IND NUMBER

TELECON

INITIATED BY: FDA

PRODUCT NAME

Nabumetone

FIRM NAME

Teva Pharmaceuticals USA

NAME AND TITLE OF PERSON WITH WHOM CONVERSATION WAS HELD

Deborah A. Jaskot

TELEPHONE NUMBER

215-256-8400

SIGNATURE

Dave Gill Shing Hou Liu

Ruby Yu

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CC: T-Con Binder Log
ANDA 75-189

IT OF HEALTH & HUMAN SERVICES

FOOD AND DRUG ADMINISTRATION

PHILADELPHIA DISTRICT SCIENCE BRANCH

MEMORANDUM

DATE:

23 March 1999

FROM:

Director, Science Branch

Philadelphia District, HFR-CE160

SUBJECT: ANDA 75-189: Nabumetone Tablets, 750 mg, and Drug Substance

Teva Pharmaceuticals USA, Sellersville, PA 18960

RE: 40061

TO:

Shing H. Liu, Ph.D.

CDER. Office of Generic Drugs, Div. Of Drug Chemistry I, HFD-623

The Philadelphia District Laboratory performed the analysis of Nabumetone Tablets, 750 mg. and Drug Substance using the firm's method and samples provided. Attached are the summary of results, worksheets, and comments for the subject ANDA.

The following comments should be considered before approval of the method:

Although all test results were within the firm's specifications, the method specifies no relative standard deviation limits for replicate injections for the drug substance assay and related substance determinations for the drug substance. The analyst did perform six replicate injections and obtained R.S.D. of respectively. It is recommended that these determinations incorporate an R.S.D. specification with an appropriate value, such as not more than

Similarly for the dosage form, an R.S.D. of 10% is specified for the impurities and degradation products determination (Standard Solution C). As the analyst obtained an actual R.S.D. of 0.12%, a lower specification seems appropriate, such as not more than

Based on the analytical results, the ANDA method appears to be suitable for regulatory control of this product, but the comments above should be considered before final approval of the ANDA. No other problems were encountered with the analytical methods.

Marker Linest

RECORD OF TELEPHONE CONVERSATION

I called D. Jaskot and informed her that their 2/3/99 submission submitted as a PAC-ATLS supplement was not appropriate for an application in TENTATIVE approval status. Since we also do not want a regular amendment submitted in response to our TA letter (which would reopen the application considerably prior to expiration of patent), I suggested the proposed addition of an alternate test site be submitted as a GRATUITOUS amendment.

Ms. Jaskot said she understood the situation and would resubmit the information as a gratuitous amendment.

X:\new\firmsnz\teva\telecons\75189.001

DATE 2/8/99

APPLICATION NUMBER 75-189

TELECON

INITIATED BY FDA

PRODUCT NAME

Nabumetone Tablets 500 mg and 750 mg

FIRM NAME TEVA

NAME AND TITLE OF PERSON WITH WHOM CONVERSATION WAS HELD

Deborah Jaskot _ DRA

TELEPHONE NUMBER

215-256-8400

SIGNATURE

Mar Inderson

DEPARTMENT OF HEALTH AND HUMAN SERVICES

FOOD AND DRUG ADMINISTRATION

APPLICATION TO MARKET A NEW DRUG, BIOLOGIC, OR AN ANTIBIOTIC DRUG FOR HUMAN USE

Form Approved: OMB No. 0910-0338 Expiration Date: April 30, 2000 See OMB Statement on last page.

FOR FDA USE ONLY

| (Title 21, Code of Federal Regulations, 314 & 601) | | | | APPLICATION NUMBER | |
|--|---|---------------------------------------|---|--|--|
| | | | | | |
| APPLICATION INFORMATION | | · · · · · · · · · · · · · · · · · · · | | | |
| NAME OF APPLICANT TEVA | Pharmaceuticals USA | | DATE OF SUBMISSION February 9, 1999 | | |
| TELEPHONE NO. (Include Area Code) (215) 256-8400 | | | FACSIMILE (FAX) Number (include Area Code) (215) 256-8105 | | |
| APPLICANT ADDRESS (Number, Street, City U.S. License Number if previously issued): 1510 Delp Drive Kulpsville, PA 19443 | , State, Country, ZIP Code or Mail Code, and | AUTHO State, an | RIZED U d ZIP Cod | S. AGENT NAME & ADDRESS (Number, Street, City, le telephone & FAX number) IF APPLICABLE | |
| PRODUCT DESCRIPTION | | J | | | |
| NEW DRUG OR ANTIBIOTIC APPLICATIO | N NUMBER, OR BIOLOGICS LICENSE NUM | BER (U pro | viously is | rsued) 75-189 | |
| ESTABLISHED NAME (e.g., Proper name, U | | T | | NAME (trade name) IF ANY N/A | |
| NABUMETONE TABLETS | | | | | |
| CHEMICAL/BIOCHEMICAL/BLOOD PROD naphthalenyl)-2-butanone | OUCT NAME (If any) 4-(6-methoxy-2- | | | CODE NAME (If any) | |
| DOSAGE FORM: TABLET | STRENGTHS: 500 mg and 750 mg | | ROUTE | OF ADMINISTRATION: ORAL | |
| • | CLICATION (21 CFR 314.50) BIOLOGIC APPLICATION (21 CFR part 601 | · | VIATED / | APPLICATION (ANDA, AADA, 21 CFR 314.94) | |
| IF AN NDA, IDENTIFY THE APPROPRIATI | | 5 (b) (2) | O 507 | | |
| | EFERENCE LISTED DRUG PRODUCT THAT | | | | |
| Name of Drug RELAFEN ® | Holder of Approved Application | B SMIT | HKLU | NE BEECHAM | |
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| O EPPICACY SUPPLEMENT O LABR | LING SUPPLEMENT CICHEMISTRY MANUFAC | TURING AN | D CONTR | OLS SUPPLEMENT CI OTHER | |
| REASON FOR SUBMISSION | | | | | |
| PROPOSED MARKETING STATUS (chec | k one) PRESCRIPTION PRODUCT | T (Rx) | OVE | THE COUNTER PRODUCT (OTC) | |
| NUMBER OF VOLUMES SUBMITTED | THIS APPLICATION IS WI | PAPER | | D PAPER AND ELECTRONIC D ELECTRONIC | |
| | ESTABLISHMENT IN | | | | |
| Provide locations of all manufacturing, packag contact, telephone number, registration numbe the site. Please indicate whether the site is rea | ing and control sites for drug substance and drug r (CFN), DMF number, and manufacturing steps dy for inspection or, if not, when it will be ready. | product (co and/or type | ontinuation of testing | n sheets may be used if necessary). Include name, addres (e.g. Final dosage form, Stability testing) conducted at | |
| Cross References (list related Lice current application) | nse Application, INDs, NDAs, PMA | s, 510(k |)s, IDE | s, BMFs, and DMFs referenced in the | |
| UKM FUA 3366 (4/9/) | | | | | |

| 2. Labeling (check one) | | 1. Index | | | |
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| 17. Field copy certification | | 15. Establishment description (21 CFR Part 600, if applicable) | | | |
| | | 16. Debarment certification | | | |
| 18. User Fee Cover Sheet (Form FDA 3397) | | 17. Field copy certification | | | |
| | | 18. User Fee Cover Sheet (Form FDA 3397) | | | |

CERTIFICATION

I agree to update this application with new safety information about the product that may reasonably affect the statement of Contraindications, warnings, precautions, or adverse reactions in the draft labeling. I agree to submit safety update reports as provided for by regulation or as requested by FDA. If this application is approved, I agree to comply with all applicable laws and regulations that apply to approved applications, including, but not limited to the following:

- 1. Good manufacturing practice regulations in 21 CFR 210 and 211, 606, and/or 820.
- 2. Biological establishment standards in 21 CFR Part 600.
- 3. Labeling regulations in 21 CFR 201, 606, 610 and/or 809.
- 4. In the case of a prescription drug or biological product, prescription drug advertising regulations in 21 CFR 202.
- 5. Regulations on making changes in application in 21 CFR 314.70, 314.71, 314.72, 314.97, 314.99 and 601.12.
- 6. Regulations on reports in 21 CFR 314.80, 314.81, 600.80 and 600.81.
- 7. Local, state and Federal environmental impact laws.

If this application applies to a drug product that FDA has proposed for scheduling under the Controlled Substances Act I agree not to market the product until the Drug Enforcement Administration makes a final scheduling decision.

The date and information in this submission have been reviewed and are certified, to be true and accurate.

Warning: a willfully false statement is a criminal offense, U. S. Code, title 18, section 1001.

SIGNATURE OF RESPONSIBLE OFFICIAL OR AGENT

TYPED NAME AND TITLE
Deborah A. Jaskot

Senior Director, Regulatory Affairs

2/9/99

ADDRESS (Street, City, State and ZIP Code)

TEVA Pharmaceuticals USA 1510 Delp Drive, Kulpsville, PA 19443 Telephone Number (215) 256-8400

Public reporting burden for this collection of information is estimated to average 40 hours per response, including the time for reviewing Instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to:

DHHS, Reports Clearance Officer Paperwork Reduction Project (0910-) Hubert H. Humphrey Building, Room 531-H 200 Independence Avenue, S.W.

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current valid OMB control number.

Washington, DC 20201

Please DO NOT RETURN this form to this address.

FURM FDA 3568 (4/97)

ATTACHMENT 1



Corporate Headquarters: TEVA PHARMACEUTICALS USA 650 Cathill Road, Sellersville, PA 18960 Corresponding Address: TEVA PHARMACEUTICALS USA 1510 Delp Drive, Kulpsville, PA 19443

Phone: (215) 256 8400 FAX: (215) 721 9669

Toll Free: (888) TEVA USA FAX: (215) 256 7855

ANDA 75-189

NABUMETONE TABLETS, 500 mg and 750 mg

GRATUITOUS AMENDMENT -ADDITION OF ANALYTICAL TESTING FACILITIES

In accord with the 21 CFR 314.96(b), TEVA Pharmaceuticals USA hereby certifies that the field copy is a true copy of the technical section of this submission and has been provided to the Division of Emergency Investigations Operations.

Sr. Director, Regulatory Affairs



TEVA PHARMACEUTICAL INDUSTRIES LTD.

P.O.BOX 353 KFAR SABA 44102 ISRAEL TEL. 972-8-7648222 FAX. 972-9-7656889

cGMP CERTIFICATION

TEVA Group, Manufacturing Operations Division, certifies that, to the best of our knowledge, all stability testing, performed at:

TEVA Pharmaceutical Industries Ltd.

2, Hamarpeh Street

Post Office Box 1142

Jerusalem 91010, Israel

are in compliance with current Good Manufacturing Practice in accordance with 21 CFR parts 210 and 211:

The laboratory was inspected by the FDA in November 1997. No 483 was issued.

Signature:

Date:

September 23, 1992

Gil Bismuth

Director, Quality Assurance

Pharmaceutical Operations Division &

Corporate R&D Division



TEVA PHARMACEUTICAL INDUSTRIES LTD.

P.O.BOX 353 KFAR SABA 44102 ISRAEL TEL. 972-9-7648222 FAX. 972-9-7656889

cGMP CERTIFICATION

TEVA Group, Manufacturing Operations Division, certifies that, to the best of our knowledge, all stability testing, performed at:

Abic,

TEVA Pharmaceutical Industries Ltd.

Post Office Box 8077

Kiryat Nordau Industrial Zone

Netanya, Israel

are in compliance with current Good Manufacturing Practice in accordance with 21 CFR parts 210 and 211.

The laboratory was inspected by the FDA in November 1997. No 483 was issued.

Signature:

Date:

September 23,190

Gil Bismuth

Director, Quality Assurance

Pharmaceutical Operations Division &

Corporate R&D Division

REVIEW OF PROFESSIONAL LABELING DIVISION OF LABELING AND PROGRAM SUPPORT LABELING REVIEW BRANCH

ANDA Number: 75-189 Date of Submission: August 18, 1997

Applicant's Name: Teva Pharmaceuticals USA

Established Name: Nabumetone Tablets, 500 mg & 750 mg

Labeling Deficiencies:

1. CONTAINER - 60's, 100's & 1000's

We encourage you to differentiate the two different strengths from each other by using contrasting colors and/or boxing, or any other means.

2. INSERT

- a. DESCRIPTION
 - i. Third paragraph:
 - A) First sentence:

Each tablet, for oral administration, contains ...

B) Second sentence:

In addition, each tablets contains the following inactive ingredients: colloidal ...

b. CLINICAL PHARMACOLOGY

We encourage the inclusion of "6-methoxy-2-naphthylacetic acid (6MNA)" underneath the structural formula.

c. INDICATIONS AND DOSAGE

Nabumetone tablets are indicated ...

d. PRECAUTIONS

Replace "children" with "pediatric patients" in

two places.

e. ADVERSE REACTIONS (Incidence <1%--Probably Causally Related) - Genitourinary:

Delete "nephrotic syndrome" from the list.

f. DOSAGE AND ADMINISTRATION - Penultimate sentence:

Nabumetone tablets can be ...

- q. HOW SUPPLIED
 - i. Please include the term "unscored" if your products are not scored. If scored, include the scoring information in the description of your drug products.
 - ii. We encourage the inclusion of NDC numbers.

Please revise your container labels and package insert labeling, as instructed above, and submit final printed container labels and insert labeling.

Please note that we reserve the right to request further changes in your labels and/or labeling based upon changes in the approved labeling of the listed drug or upon further review of the application prior to approval.

To facilitate review of your next submission, and in accordance with 21 CFR 314.94(a)(8)(iv), please provide a side-by-side comparison of your proposed labeling with the last submitted labeling with all differences annotated and explained.

Jerry Phillips

Director 6

Division of Labeling and Program Support Office of Generic Drugs

Center for Drug Evaluation and Research

Lelling Than

TELEPHONE

MEMO

To:

Bill North for Deborah Jaskot

(215) 256-8400 X 5249

REF#

ANDA 75-189

From:

Lizzie Sanchez

Date:

12/1/97

Subject: Nabumetone Tablets 500 and 750 mg

Requested by: Andre Jackson

The firm was requested to submit all chromatograms which show an interfering peak near the major analyte 6-methoxy-2-naphthylacetic acid, as was observed with subject #5. Please submit the chromatograms above specified for both fasting and nonfasting studies. Please label "Bioequivalence telephone amendment".